TEODORESCU, N.

1/2

SOV/44-58-4-2965

Translation from: Referativnyy zhurnal, Matematika, 1958,
                   Nr 4, p 77 (USSR)

AUTHOR: Teodorescu, N.

TITLE: Shock Wave in the Invariant Theory of Wave Propagation
        (Udarnaya volna v invariantnoy teorii rasprostraneniya
        voln)

PERIODICAL: Zh. matem. i fiz. Akad. RNR, 1954, Nr 3, pp 114-131

ABSTRACT: Bibliographic entry.

Card 1/1

BOLD, I., ing.; TEODORESCU, N.; CRISTEA, V., ing.; DABROWSKI, R., ing.

Some aspects of the organization of the labor of the brigade
of the territorial management organization. Rev geodezie 7
no.2:46-55 '63.

1. I.S.P.O.T.A. (for Bold, Teodorescu). 2. O.R.P.O.T., Oltenia
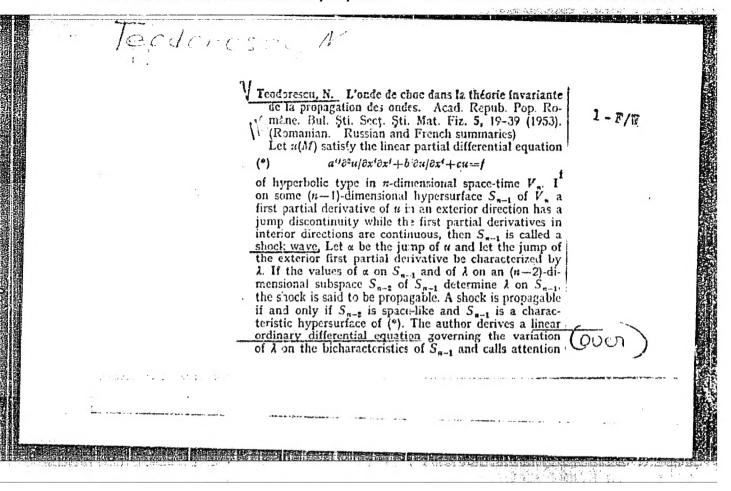(for Cristea). 3. So. Fd. Funciar R. Craiova (for Dabrowski).

GIOGOLEA, G., prof.; MORAIT, G.; TEODORESCU, N.

A new method for the determination of caesium. Rumanian M Rev. no.4:
87-90 O-D '60.
(CESIUM chemistry)

Teodorescu, N.

Teodorescu, N. L'onde de choc dans la théorie invariante de la propagation des ondes. Acad. Repub. Pop. Române. Bul. Şti. Secţ. Şti. Mat. Fiz. **5**, 19–39 (1953). (Romanian. Russian and French summaries)

Let $u(M)$ satisfy the linear partial differential equation

$$(*) \qquad a^{ij}\partial^2 u/\partial x^i \partial x^j + b^i \partial u/\partial x^i + cu = f$$

of hyperbolic type in n-dimensional space-time V_n. If on some $(n-1)$-dimensional hypersurface S_{n-1} of V_n a first partial derivative of u in an exterior direction has a jump discontinuity while the first partial derivatives in interior directions are continuous, then S_{n-1} is called a shock wave. Let α be the jump of u and let the jump of the exterior first partial derivative be characterized by λ. If the values of α on S_{n-1} and of λ on an $(n-2)$-dimensional subspace S_{n-2} of S_{n-1} determine λ on S_{n-1}, the shock is said to be propagable. A shock is propagable if and only if S_{n-2} is space-like and S_{n-1} is a characteristic hypersurface of $(*)$. The author derives a linear ordinary differential equation governing the variation of λ on the bicharacteristics of S_{n-1} and calls attention
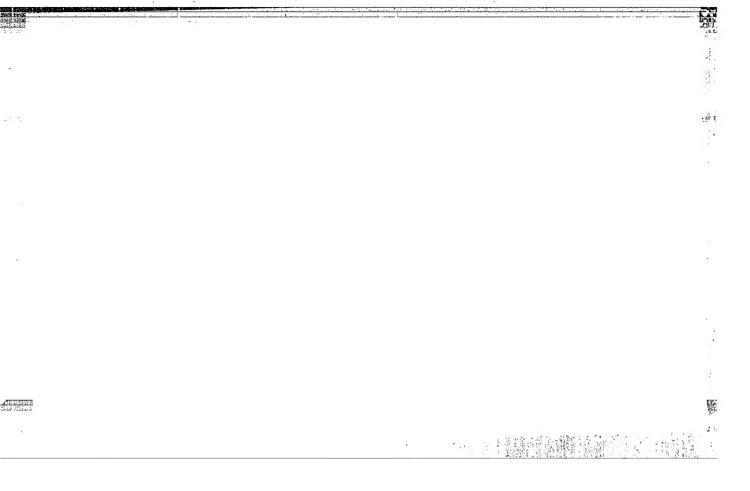
1 - F/17

Teodorescu, N.

to a term omitted in a similar discussion in J. Hada-
mard's Leçons sur la propagation des ondes. [Hermann,
Paris, 1903] Finally the propagation of the wave S_{n-1}
in S_n, is interpreted in terms of the concept of corpuscle
a united multiplicity of $(n-2)$-dimensional contact
elements with centers on S_{n-2}, previously introduced
by the author in an earlier (unavailable) paper [An.
Acad. Repub. Pop. Române Sect. Sti. Mat. Fiz. Chim.
Ser A. 3, no. 17 (1950)]   *J. H. Giese.*

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TEODORESCU, N.

"Rumanian Soviet research on the theory of areolar derivatives and
monogenic functions ($\propto$)."p. 389; "Issued by the Rumanian Society of
Mathematics and Physics, Monthly ". (GAZETA MATEMATICA SI FIZICA, SERIA A.,
Vol. 6, no. 8/9, Aug. /Sept. 1954. Bucuresti, Rumania.)

SO: Monthly List of East European Accession, (EEAL), LC, Vol. 4, No. 5,
May, 1955, Uncl.

THEODORESCU, N.

'Dimitrie Pompeiu; an obituary ", p. 431; "Issued by the Rumanian Society
of Mathematics and Physics. Monthly". (GAZETE MATEMATICA SI FIZICA,
SERIA A., Vol. 6, no. 10,. Oct,. 1954,.   . Bucuresti, Rumania).

SO: Montaly List of East European Accession, (EEAL), LC, Vol. 4., No. 5,
May, 1955.

TEODORESCU, N.

Achievements at the Institute of Mathematics of the Rumanian
Academy during the first five-year-period. p. 640.
GAZETA MATEMATICA SI FIZICA. SERIA A. Bucuresti. Vol. 7,
no. 12, Dec. 1955.

SOURCE: East European Accessions List(EEAL) Library of Congress
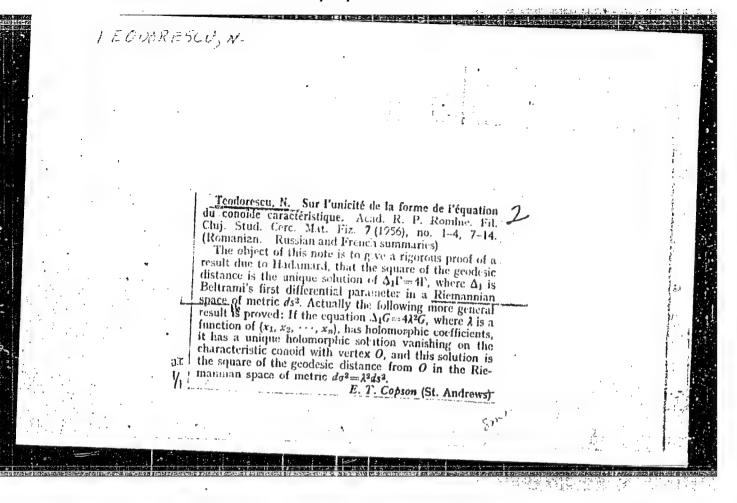Vol. 5, No. 7, July 1956.

TEODORESCU, N.

The 4th Congress of Rumanian Mathematicians. p. 376

GAZETA MATEMATICA SI FIZICA. SERIA A. (Societatea de Stiinte
Matematice si Fizice din Rominia)
Vol. 8, no. 7, July 1956

Bucuresti, Rumania

SOURCE: East European List (EEAL) Library of
         Congress, Vol. 6, No. 1, January 1957

/ EODARESCU, N.

Teodorescu, N.   Sur l'unicité de la forme de l'équation
du conoïde caractéristique. Acad. R. P. Romîne. Fil.
Cluj. Stud. Cerc. Mat. Fiz. 7 (1956), no. 1–4, 7–14.
(Romanian. Russian and French summaries)

The object of this note is to give a rigorous proof of a
result due to Hadamard, that the square of the geodesic
distance is the unique solution of $\Delta_1\Gamma = 4\Gamma$, where Δ_1 is
Beltrami's first differential parameter in a Riemannian
space of metric ds^2. Actually the following more general
result is proved: If the equation $\Delta_1 G = 4\lambda^2 G$, where λ is a
function of $(x_1, x_2, \cdots, x_n)$, has holomorphic coefficients,
it has a unique holomorphic solution vanishing on the
characteristic conoid with vertex O, and this solution is
the square of the geodesic distance from O in the Rie-
mannian space of metric $d\sigma^2 = \lambda^2 ds^2$.

E. T. Copson (St. Andrews)

S/044/62/000/009/033/069
A060/A000

AUTHOR: Teodorescu, N.

TITLE: Spatial derivatives and a generalization of the fundamental diffe-
             rential operators Grad, Div, Rot of field theory

PERIODICAL: Referativnyy zhurnal, Matematika, no. 9, 1962, 74, abstract 9B354
             ("Bull. math. Soc. sci. math. et phys. RPR", 1959, 3, 363 - 383,
             French)

TEXT: The paper proposes a generalization of the operators Grad, Div, Rot
to the case of nondifferentiable fields, taking the transformation properties
into account. The author makes systematic use of the notion of space derivative
proposed by him. The paper indicates the relationship between the theory deve-
loped by its author and the known results of S. L. Sobolev (S. L. Sobolev, "Ne-
kotoryye primeneniya funktsional'nogo analiza v matematicheskoy fizike" ("Some
Applications of Functional Analysis to Mathematical Physics"), Leningrad, 1950).

[Abstracter's note: Complete translation]   O. S. Parasyuk

Card 1/1

TEODORESCU, N.
SURNAME (in caps); Given Names

Country: Rumania

Academic Degrees: --

Affiliation: Corresponding Member of the Academy of R.P.R. (Academia
R.P.R.)
Source: Bucharest, Comunicarile Academiei Republicii Populare Romine,
No 4, 1961, pp 375-382.
Data: The
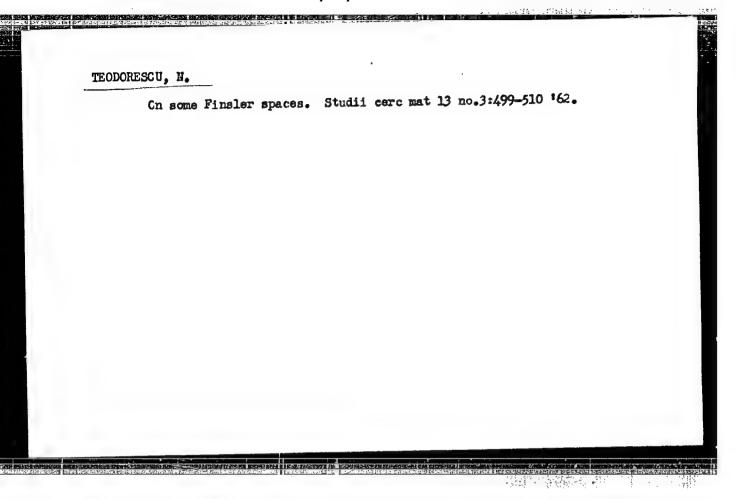" Approximation of Holomorph Functions (x) by an Areolar
. Polynomials."

TEODORESCU, N. (Bucuresti)

Global areolar derivative and generalized derivative. Bull math
Rum 6 no.3/4:239-255 '62 [publ. '64].

1. Submitted October 28, 1963.

TEODORESCU, N. (Rumania)

Data on the global, areoral (spatial) differential quotient and
the generalized Vecua's differential quotient as interpreted by
Sobolev. Mat lopak 13 no.1/2:209-210 '62.

TEODORESCU, N.

    Cn some Finsler spaces. Studii cerc mat 13 no.3:499-510 '62.

TEODORESCU, N., acad.

       Mathematics and youth aspirations. Gaz mat B 14 no.6:321-326 Je '63.

       1. Dean, Faculty of Mathematics and Mechanics, Bucharest University.

TEODORESCU, N.

The 1962 Lenin Prizes in the field of mathematics and
application of mathematics. Gaz mat fiz 14 no.8:431-434
Ag '62.

1. Decanul Facultatii de matematica si fizica a
Universitatii din Bucuresti.

TEORDORESCU, N., academician

Generalized derivative $\mathcal{L}$ of the functions $f(z)$ of the class C' (Δ). Comunicarile AR ∂i 13 no.4:339-342 Ap '63.

RUMANIA

TEODORESCU, N., Univ Prof, Member of the RPR Academy (Membru al Academiei PPR) [affiliation not given]

"Mathematics and Some Philosophical Problems."

Abstract: A Marxist evaluation of abstractions and "objective reality", with emphasis on the significance of mathematical abstractions and their roots in the real world. Also discusses the "incorrect" concepts of mathematical abstraction advanced by the idealist school of thought. Justifies material-dialectic concepts in mathematics by referring to current advances in science, technology, economy and culture.

1/1   - 2 -

TEODORESCU, N., acad.

Prospects for the youth who study mathematics. Gaz mat
B 15 no. 6:241-244 Je '64.

1. Dean of the Faculty of Mathematics and Mechanics,
Bucharest University.

TEODORESCU, P., prof.; SAVULESCU, V., dr.; ANDRONACHE,I., dr.

Clinical aspects of the pre-ulcerous phase of ulcerous disease.
Stages of the evolution of peptic ulcer. Med. Intern. (Bucur.)
16 no.12:1497-1504 D '64

1. Lucrare efectuata in Clinica medicala a Spitalului unificat de
adulti al Raionului Tudor Vladimirescu, Institutul medico-far-
maceutic, Bucuresti.

OERIU, S.; MOGA, V.; BERTESCU, L; BENSCH, H.; CRACEA, M.; TEODORESCU, O.

Research in obtaining products with tuberculostatic action. Note II.
Correlations between the chemical and physiochemical properties,
structure, and biological properties of some products obtained from
coniferous resins. Studii cerc chim 7 no.4:531-548 '59. (EEAI 9:7)

1. Collectivul de chimioterapie al Academiei R.P.R., Bucuresti. 2.
Membru correspondent al Academiei R.P.R. (for Oeriu)
      (Gums and resins)   (Coniferae)   (Tuberculosis)
      (Bactericidal action)   (Therapeutics)

OERIU, S., acad.; MOGA, V.; BERTESCU, L.; BENESCH, H.; CRACEA, M.;
TEODORESCU, O.

Obtainment of tuberculostatic products. Note II. Correlations between
the chemical and physicochemical properties, the biological structure
and properties of certain products obtained from the rosins of Coni-
ferae. Rev chimie 6 no.1:159-174 '61.

1. Collectif de chimiotherapie de l'Academie de la R.P.R., Bucarest.
2. Membre correspondant de l'academie de la R.P.R. (for Oeriu)

OERIU, S.; COSTESCU, G.; TEODORESCU, O.; SOIMU, I.

Activity of cocarboxylase and transaminase, and capacity of trans-
acetylation in the process of aging. Studii cerc biochimie 5 no.3:
337-342 '62.

1. Catedra de biochimie a Facultatii de medicina generala din I.M.F.,
Bucuresti. 2. Membru corespondent al Academiei R.P.R. si membru al
Comitetului de redactie, "Studii si cercetari de biochimie" (for
Oeriu).

OERIU, S.; TIGHECIU-DUMITRESCU, M.; ENACHE-PEREDERI, L.; GRIGORESCU, G.;
    MANESCU, M.; COSTESCU, G.; TEODORESCU, O.; SOIMU, I.; TANASE, I.;
    DINU, V.; GEORGESCU, P.; POPESCU, I.; PAUNESCU, E.

Session of the Society of Medical Sciences; April 24, 1962. Studii
cerc biochimie 5 no.3:477-478 '62.

1. Catedra de biochimie I.M.F. (for Oeriu, Tigheciu-Dumitrescu,
Enache-Perederi, Grigorescu, Manescu, Costescu, Teodorescu,
Soimu, Tanase, and Dinu). 2. Institut de fiziologie (for Georgescu,
Popescu, and Paunescu).

OERIU, S. [Oeriu, S.]; KOSTESKU, G. [Costescu, G.]; TEODORESKU, O.
       [Teodorescu, O.]

       Glutaminase activity in the cerebral cortex of rats of different
       ages and the effect of cysteine on glutaminase in the brain of aged
       animals. Ukr. biokhim. zhur. 35 no.2:163-167 '63.   (MIRA 17:9)

       1. Laboratoriya biokhimii Meditsinskogo i farmatsevticheskogo
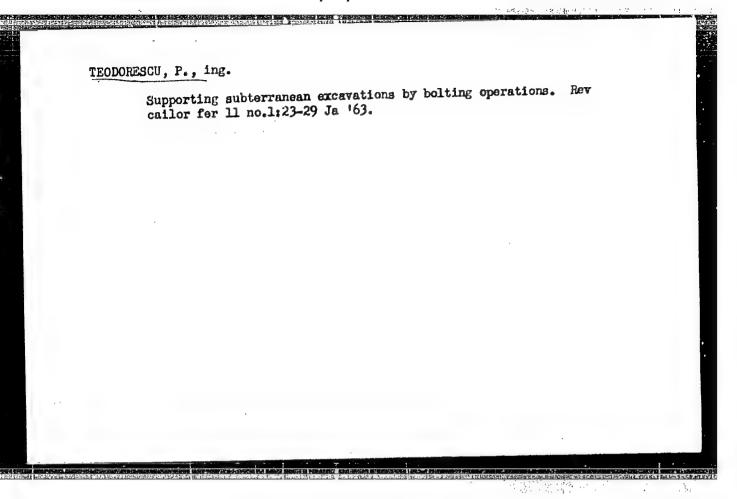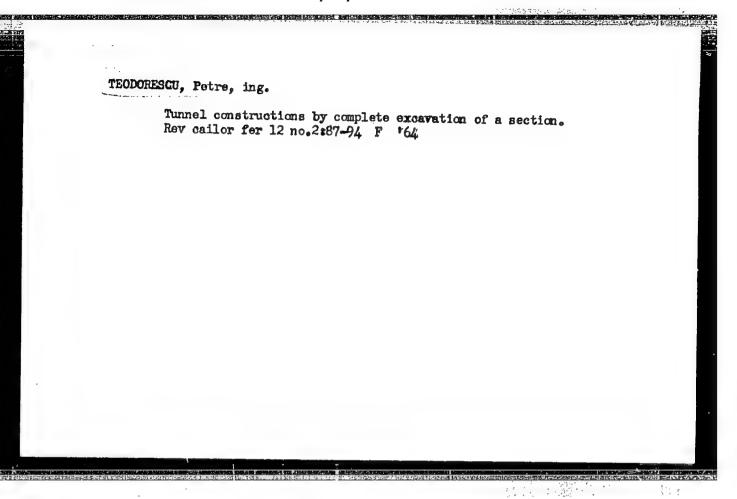   instituta, Bukharest.

TEODORESCU, P.

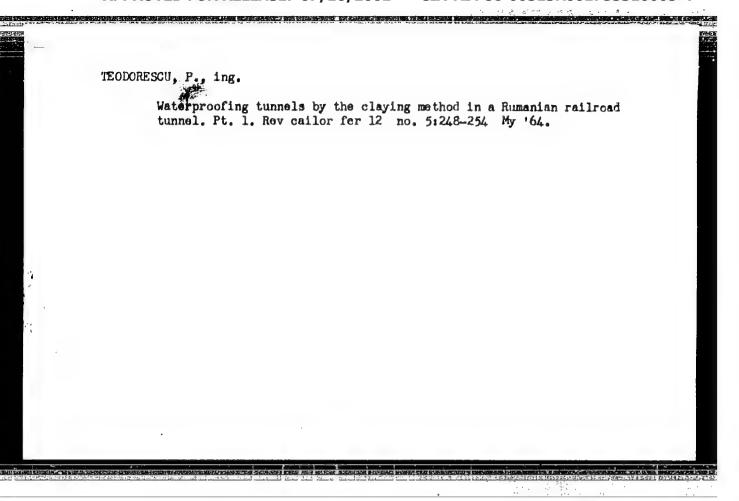"Contributions to the problem of ventilation in railroad tunnels in operation. II."

p. 93 (Probleme Feroviare) Vol. 3, no. 3, Mar. 1957
Bucharest, Rumania

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958

TEODORESCU, P., ing.

Supporting subterranean excavations by bolting operations. Rev
cailor fer 10 no.12:627-633 D '62.

TEODORESCU, P., ing.

Supporting subterranean excavations by bolting operations. Rev
cailor fer 11 no.1:23-29 Ja '63.

TEODORESCU, Petre, ing.

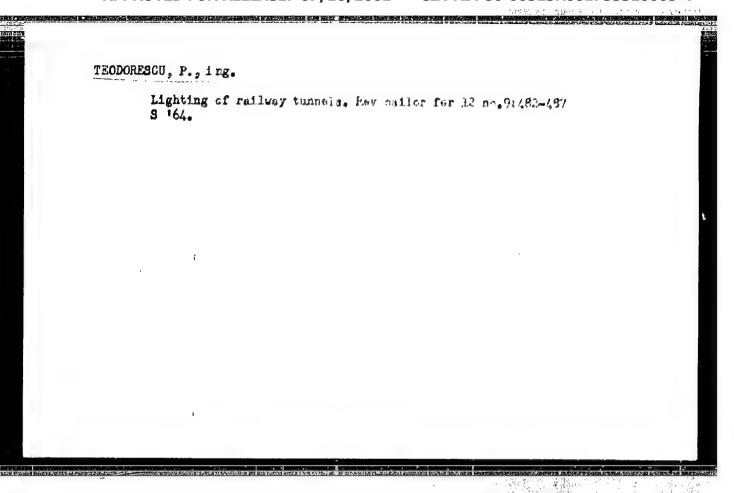Tunnel constructions by complete excavation of a section.
Rev cailor fer 12 no.2:87-94 F '64

TEODORESCU, P., ing.

Waterproofing tunnels by the claying method in a Rumanian railroad
tunnel. Pt. 1. Rev cailor fer 12 no. 5:248-254 My '64.

TEODORESCU, P., ing.

Waterproofing of tunnels by the claying method, with application in a Rumaniam railroad tunnel. Pt. 2. Rev cailor fer 12 no. 7: 368-373 Jl '64.

TEODORESCU, P., ing.

Lighting of railway tunnels. Rev ailer for 12 n=.91482-497
S '64.

TEODORESCU, P.

Considerations on penal regulations for protection of quality of products. p. 32.
(Standardizarea, Vol. 9, No. 1, Jan. 1957, Bucuresti, Rumania)

SO: Monthly List of East European Accessions (EEAL) Lc. Vol. 6, No. 8, Aug. 1957. Uncl.

USSR / General Problems of Pathology. Experimental Therapy.   U-5

Abs Jour   : Ref Zhur - Biol., No 10, 1958, No 46894

Author   : Teodorescu, P.; Fronda, Nadia; Iliescu, V.
Inst   : Not given
Title   : Clinical Uses of Triethylenemelamine (TEM)

Orig Pub   : Viata med., 1956, 3, No 11, 19-28

Abstract   : Three cases of successful lymphagranulomatosis (Hodg-
             kin's disease) treatment are reported by using the TEM
             compound (2-4 mg daily internally). During the course
             of the disease the patients received 15-20 mg of TEM,
             and after 10-15 days the treatment was repeated. Com-
             plications (leukopenia) occurred more often in cases of
             repeated therapy, and in patients with lowered acidity
             or with achlohydria. In these cases blood transfusions
             as well as intake of vitamins C and B_{12}, antibiotics and
             cortisone preparations are recommended. Children tolerate
             treatment with TEM well.

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TEODORESCU, P.dr.

GEIB, R., Dr.; FAIBISCH, B., dr.; TEODORESCU, P., dr.

Report of some cases of non-occupational brucellosis. Med. int., Bucur. 9 no.4:618-624 Apr 57.

1. Lucrare efectuata in Clinica I medicala si Clinica de boli contagioase a Spitalului "Colentina."
(BRUCELLOSIS, case reports
non-occup., probably caused by consumption of dairy products)
(MILK
cream & cheese as probable causes of brucellosis)

TEODORESCU, P. Prof.; BERCEANU, St., Dr.; LILIS, M. Dr.; SIRBULESCU, R. Dr.

Endomyocardofibrosis; clinical and morphopathological aspects.
Med. int., Bucur. 9 no.5:74 -751 May 57.

1. Lucrare efectuata in Clinica a VI-a medicala I.M.F. a Spitalului
Dr. I. Cantacuzino.
(HEART DISEASES
endomyocardial fibrosis, clin. & pathol. aspects)

TEODORESCU, P.; BERCOVICI, S.; FRONDA, Nadia

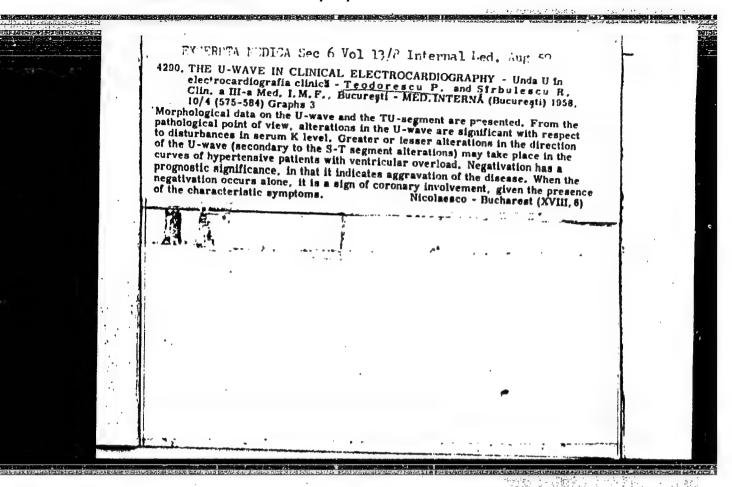Hepato-biliary repercussions of hepatic hydatidosis. Med. int., Bucur.
9 no.8:1246-1259 Aug 57.

1. Lucrare efectuata in Clinica a VI-a medicala I.M.F. si Spitalul
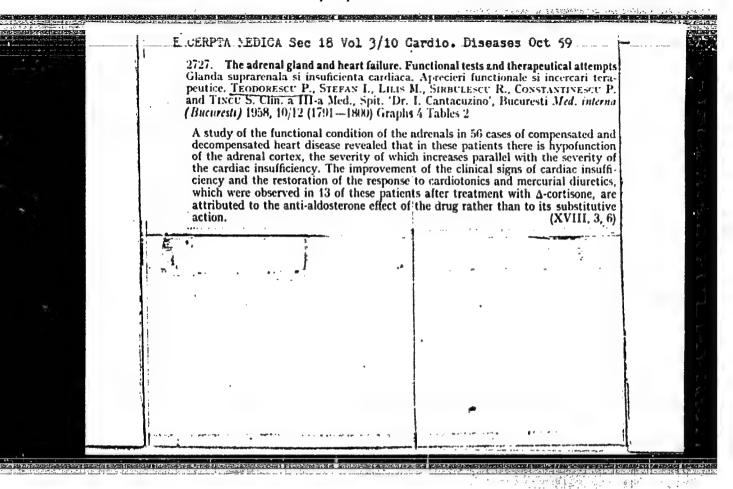"Cantacuzino".
(LIVER DISEASES
echinococcosis, causing obstruct. dyskinesia, lithiasis &
other disord. of biliary tract)
(BILIARY TRACT, DIS.
dyskinesia, lithiasis, obstruct. & other disord. caused
by hepatic echinococcosis)

EXCERPTA MEDICA Sec 6 Vol 13/2 Internal Led. Aug 59

4290. THE U-WAVE IN CLINICAL ELECTROCARDIOGRAPHY - Unda U in electrocardiografia clinică - Teodorescu P. and Sîrbulescu R. Clin. a III-a Med. I.M.F., Bucureşti - MED. INTERNA (Bucureşti) 1958, 10/4 (575-584) Graphs 3

Morphological data on the U-wave and the TU-segment are presented. From the pathological point of view, alterations in the U-wave are significant with respect to disturbances in serum K level. Greater or lesser alterations in the direction of the U-wave (secondary to the S-T segment alterations) may take place in the curves of hypertensive patients with ventricular overload. Negativation has a prognostic significance, in that it indicates aggravation of the disease. When the negativation occurs alone, it is a sign of coronary involvement, given the presence of the characteristic symptoms.   Nicolaesco - Bucharest (XVIII, 6)

2727. The adrenal gland and heart failure. Functional tests and therapeutical attempts Glanda suprarenala si insuficienta cardiaca. Aprecieri functionale si incercari tera-peutice. TEODORESCU P., STEFAN I., LILIS M., SIRBULESCU R., CONSTANTINESCU P. and TIXCU S. Clin. a III-a Med., Spit. 'Dr. I. Cantacuzino', Bucuresti *Med. interna (Bucuresti)* 1958, 10/12 (1791—1800) Graphs 4 Tables 2

A study of the functional condition of the adrenals in 56 cases of compensated and decompensated heart disease revealed that in these patients there is hypofunction of the adrenal cortex, the severity of which increases parallel with the severity of the cardiac insufficiency. The improvement of the clinical signs of cardiac insuffi-ciency and the restoration of the response to cardiotonics and mercurial diuretics, which were observed in 13 of these patients after treatment with Δ-cortisone, are attributed to the anti-aldosterone effect of the drug rather than to its substitutive action.   (XVIII, 3, 6)

TEODORESCU, P.; STEFAN, I.; LILIS, M.; SIRBULESCU, R.; CONSTANTINESCU, P.; TINCU, S.

The adrenal glands & cardiac failure: functional tests & therapeutic attempts. Rumanian M. Rev. 3 no.1:15-21 Jan-Mar 59.
(CONGESTIVE HEART FAILURE
      adrenal cortex funct. & prednisone ther.)
(ADRENAL CORTEX, physiol.
      in congestive heart failure, application to prednisone
      ther.)
(PREDNISONE, ther. use
      congestive heart failure, indic. by adrenal cortex funct.)

TEODORESCU, P., dr.; ILIESCU, V., dr.; IONASESCU, R., dr.

Essential cryoglobulinemia. Med. intern. 14 no.10:1217-1223 O '62.

1. Lucrare efectuata in Clinica medicala a Spitalului "Bernat Andrei"
(director: prof. P. Teodorescu), Bucuresti.
 (CRYOGLOBULINS)   (MYOCARDIUM)   (SCLEROSIS)
                (AURICULAR FIBRILLATION)

TEODORESCU,P.,Prof.

Current etiopathogenetic aspects of arterial hypertension.
Med. intern., Bucur. 11 no.5:641-651 '60.

1. Clinica medicala, Spitalul "Dr. I. Cantacuzino".
    (HYPERTENSION,etiology)
    (KIDNEY DISEASES, complications)
    (ADRENAL GLANDS,diseases)
    (CAROTID SINUS, pathology)

TEODORESCU,P.,Prof.; LILIS,M.,dr.; MARES,A.,dr.; CONSTANTINESCU,D.,dr.

Acute cerebral circulatory insufficiency. Med. intern.,Bucur 11
no.5:691-698 '60.

1. Lucrare efectuata in Clinica medicala,Spitalul "Dr. I. Cantaczino",
Bucuresti.
       (BRAIN,blood supply)

TEODORESCU, P., prof.; BERCEANU, St.; SASARMAN, Maria; HERGOT, Lucia;
MANESCU, Gh.; PRISCU, Al.

Clinical, haematological serological, and histopathological investigations
on splenopathies with a therapeutic indication of splenectomy. Rumanian
M Rev. no.4:21-28 O-D '60.
                    (SPLEEN diseases)

TEODORESCU, P., prof.; ILESCU, V., dr.; IONASESCU, R., dr.; COSERU, C.,
        dr.

   On a case of benign inoculation reticulosis (cat-scratch disease).
   Med. intern., Bucur 12 no.11:1677-1682 N '60.
              (CAT-SCRATCH DISEASE case reports)

TEODORESCU, P., prof.; STEFAN, I.; LILIS, M.; SIRBULESCU, R.; TINCU, S.;
        POMPILIAN, P.

Contributions to the functional characterization of the adrenal cortex
in heart failure. Rumanian M Rev. no.1:272 Ja-Mr '61.

1. Medical Clinic, Catacuzino Hospital, Medicopharmaceutical Institute,
Bucharest. Head of the Clinic: Prof. P. Teodorescu.
    (ADRENAL CORTEX physiology)   (HEART FAILURE, CONGESTIVE physiology)

TEODORESCU, P., prof.; LILIS, M., dr.; STEFAN, I., dr.; TINCU, Silvia, chemist; SIRBULESCU, R., dr.; POMPILIAN, P., dr.; CUCU, N., dr.; STERIAN, Iolanda

Treatment with sulfonamide diuretics in refractory cardiac insufficiency. Med. intern., Bucur 13 no.1:121-135 Ja '61.

(HEART FAILURE, CONGESTIVE therapy)
(CHLOROTHIAZIDE related cpds)

TEODORESCU, P., prof.; CARP, C., dr.; SIRBULESCU, R., dr.;

Etiopathogenetic and clinical study of 50 cases of unstable bundle branch block. Med. intern., Bucur 13 no.2:179-193 F '61.

1. Lucrare efectuata in Clinica medicala, Spitalul "Bernat Andrei", I.M.F. Bucuresti.

(HEART BLOCK)

TEODORESCU, P., prof.; SIRBULESCU, R., dr.; DEGERATU, T., dr.; POMPILIAN, P., dr.; NICOLAESCU, V., dr.; GEORGESCU, M., dr.

Clinical and therapeutic aspects of fixed and malignant forms of arterial hypertension. Med. inter., Bucur 13 no.3:353-358 Mr '61.

1. Lucrare efectuata in Clinica a III-a medicala I.M.F., Bucuresti.
   (HYPERTENSION therapy)

TEODORESCU, P., prof.; SASARMAN, Maria, dr.; IONASESCU, Gabl., dr.

Idopathic hypoprothrombinemia. Med. intern. 3:317-323 Mr '62.

1. Lucrare efectuata in Clinica medicala a Spitalului "Bernat Andrei"
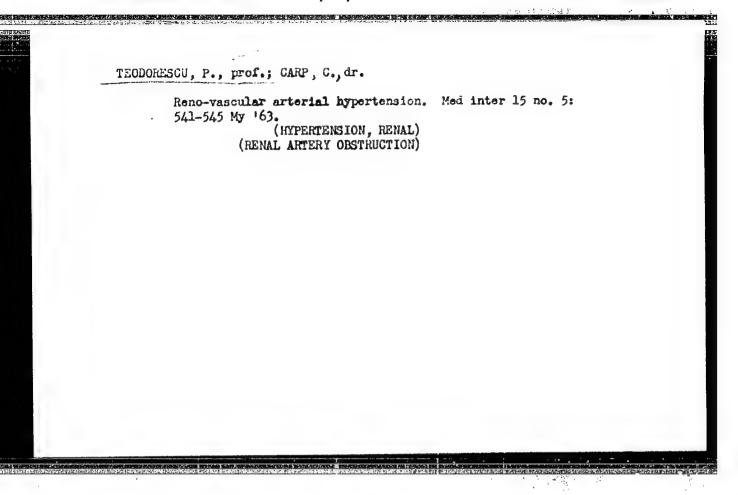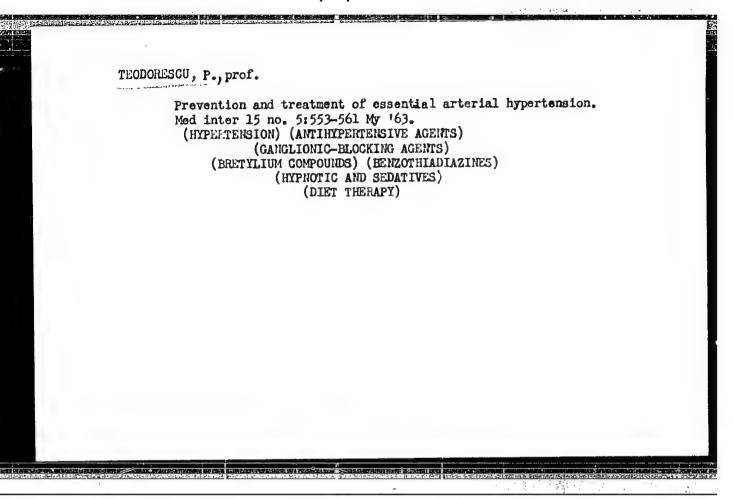(director: prof. P. Teodorescu).
(HEMORRHAGIC DIATHESIS case reports)

SAVULESCU, V., dr.; ANDRONACHE, I., dr.; TEODORESCU, P., prof.; ANGELESCU, H., dr.

Considerations on the factors intervening in determining recurrence of peptic ulcer. I. The study of the exogenous factors. Med. intern. 14 no.2:175-185 F '62.

1. Lucrare efectuata in Clinica medicala, Spitalul "Bernat Andrei", I.M.F., Bucuresti (director: prof. P. Teodorescu).
(PEPTIC ULCER)

TEODORESCU, P., prof.; NICOLAESCU, V., dr.; ANGHEL, E., dr.; ANDRONACHE, I., dr.;
GEORGESCU, M., dr.

Comparative study of the morbidity of cardiovascular diseases in the
Clinica medicala "Bornat Andrei" and in several population groups.
Med. intern. 14 no.4:549-554 My '62.
(CARDIOVASCULAR DISEASES)   (MORBIDITY)

SAVULESCU, V., dr.; POPESCU, D.W., dr.; TEODORESCU, P., prof.

Microradiosonde in investigation of the motoricity and pH of the gastrointestinal tract. Preliminary note. Med. intern. 14 no.8: 1009-1016 Ag '62.

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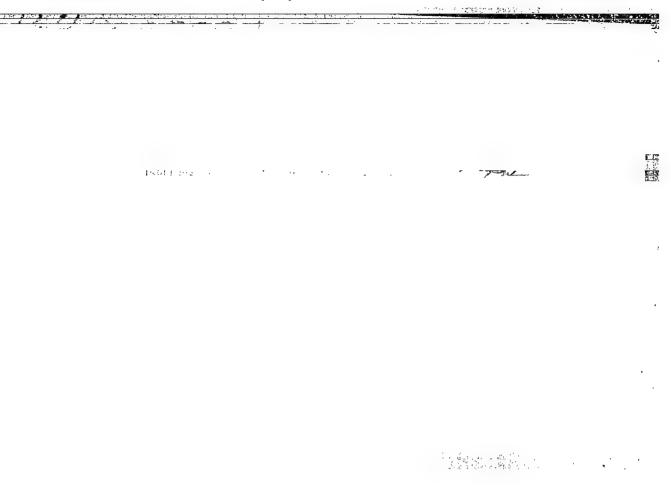
author above. The original paper presents essentially a more inhomogeneous interior partial differential equation of eighth order with constant coefficients, these latter being very elaborate functions of the elastic moduli of the material (Appendices 1 and 2). Next (¶11) he shows that the dir- $\quad \angle \theta \; \alpha$)

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of stress functions for plane strain and plane stress. In
the latter case, certain approximations are involved.
These could have been eliminated by interpreting plane
stress as generalized plane stress. Omitted detail in the
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July 30, 1959

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K. Bhagwandin (Oslo)

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(Elasticity)   (EEAI 9:6)

23658
R/008/60/000/004/009/018
A125/A126

indecipherable handwriting 1538, 1327, 1103, 2807

AUTHOR: Teodoresou, P. P.

TITLE: On some infinite systems of linear equations which interfere in
               the plane problem of the elasticity theory for a rectangular field

PERIODICAL: Studii şi Cercetări de Mecanică Aplicată, no. 4, 1960, 925 - 935

TEXT: In previous works (Ref. 6: Asupra calculului grinzilor pereţi cu
o singură deschidere. Partea I. Studii şi cercetări de mecanica aplicata, VIII
1, 115, 1957 and Ref. 7: Asupra calculului grinzilor pereti cu o singură de-
schidere. Partea a II-a. Studii şi cercetări de mecanică aplicată, VIII, 2,
451, 1957) the author has shown that the solution of the first basic problem
of the elasticity theory for a rectangular field is reduced for every case of
partial load to the solution of a system of linear algebraic equations with an
infinity of unknowns. In the present paper he studies the regularity of these
systems of infinite linear equations to see whether the solution is mathema-
tically correct, and the external load should eventually verify some conditions,
2 a and 2b being the two dimensions of the rectangular field. The author fur-
ther considers the ratios (1) as well as the case of a normal load, symmetrical

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On some infinite systems of linear ....

in relation to the geometric symmetry axes. A load, expressed by

$$\bar{p}(x) = p(x) = b_0 + \sum_n b_n \cos \gamma_n x, \tag{2}$$

is supposed to act on the $y = \pm b$ sides. The state of stress is given by

$$\sigma_x = \sum_n (-1)^n \bar{B}_n \Phi_9 (\gamma_n y) \cos \gamma_n x + \sum_m (-1)^m \bar{D}_m \Phi_7' (\delta x) \cos \delta_m y,$$

$$\sigma_y = b_0 + \sum_n (-1)^n \bar{B}_n \Phi_7 (\gamma_n y) \cos \gamma_n x + \sum_m (-1)^m \bar{D}_m \Phi_9' (\delta_m x) \cos \delta_m y, \tag{4}$$

$$\tau_{xy} = \sum_n (-1)^n \bar{B}_n \Phi_8 (\gamma_n y) \sin \gamma_n x + \sum_m (-1)^m \bar{D}_m \Phi_8' (\delta_m y) \sin \delta_m y,$$

the functions $\Theta_1 (\delta \pi)$ are defined by the relations

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$$\Theta_7 (\vartheta\pi\zeta) = \frac{\vartheta\pi}{sh\,\vartheta\pi} \left[(1 + \vartheta\pi \, cth \, \vartheta\pi) \, ch \, \vartheta\pi\zeta - \vartheta\pi\zeta sh\,\vartheta\pi\zeta \right],$$

(7)

$$\Theta_8 (\vartheta\pi\zeta) = - \frac{\vartheta\pi}{sh\,\vartheta\pi} (\vartheta\pi \, cth \, \vartheta\pi \, sh \, \vartheta\pi\zeta - \vartheta\pi\zeta ch\,\vartheta\pi\zeta),$$

$$\Theta_9 (\vartheta\pi\zeta) = \frac{\vartheta\pi}{sh\,\vartheta\pi} \left[(1 - \vartheta\pi \, cth\,\vartheta\pi) \, ch \, \vartheta\pi\zeta + \vartheta\pi\zeta \, sh \, \vartheta\pi\zeta \right].$$

and the $\bar{B}_n$, $\bar{D}_m$ coefficient rows are given by the equation systems with a double infinity of unknowns

$$\sum_1 \mu_{ml}^2 \, \bar{B}_l + \chi_2 \, (m\lambda) \, \bar{D}_m = 0$$

$(m, 1 = 1, 2, 3, \ldots.)$

(8).

$$\chi_2' \, (n\lambda') \, B_n + \sum_1 \mu_{ln}^2 \, \bar{D}_l = (-1)^n b_n$$

$(n, 1 = 1, 2, 3, \ldots.)$

To solve the system (8) by approximate calculation methods, it is necessary to

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prove the existence and the unity of the solution as well as its limits. In this case it has to be shown whether this system is infinite or not. The system (8) is completely regular if the conditions

$$\sum_1 \mu_{m1}^2 < \chi_2 \ (m\lambda),$$ (11)

(11')

and

$$\sum_1 \mu_{1n}^2 < \chi_2' \ (n\lambda')$$

are verified. On the basis of a development into a Fourier series, the author deduces these conditions to

(15)

$$2\left(\frac{\delta_m a}{sh \ \delta_m a}\right)^2 > 0$$

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and

$$2 \left(\frac{\gamma_n b}{\text{sh } \gamma_n b} \right)^2 > 0 \tag{15'}$$

which show that these values tend for $m \to \infty$ or $n \to \infty$ towards zero. Thus, the system (8) is regular. The free terms have to satisfy the condition

$$\bar{b}_n = \frac{b_n}{\chi_2'(n \lambda')} \leqq K\rho_n' \tag{17}$$

so that one should have a limited solution obtained by approximations. But, the solution of a regular system is not always unique. With the change of variables

$$B_n' = \gamma_n^2 \bar{B}_n, \tag{18}$$
$$D_m' = \delta_m^2 D_m$$

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the system (8) is changed into the system

$$\sum_i \omega^2 \mu_{mi}^2 B_i' + \chi_2 (m.\lambda) D_m' = 0 \qquad (19)$$

$$\chi_2' (n \lambda') B_n' + \sum_1 \omega'^2 \mu_{1n}^2 D_1' = \gamma_n^2 (-1)^n b_n'$$

which is also proved to be regular, the Fourier coefficient b_n being of a $1/n^2$ value (ρ_m and ρ_n' tend for $m \to \infty$ and $n \to \infty$ towards zero). By the change of variables, one obtains a regular system with limited free terms. On the basis of P. S. Bondarenko (Ref. not given) it can be proved that the solution of both systems is unique. For the system (8) the b_n Fourier coefficients have to be only of the $1/n^2$ value. To reduce the restriction imposed on the external loads, the author deduces by the change of variables

$$\bar{B}_n' = \gamma_n \bar{B}_n' \qquad (24)$$

$$\bar{D}_m' = \delta_m \bar{D}_m.$$

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